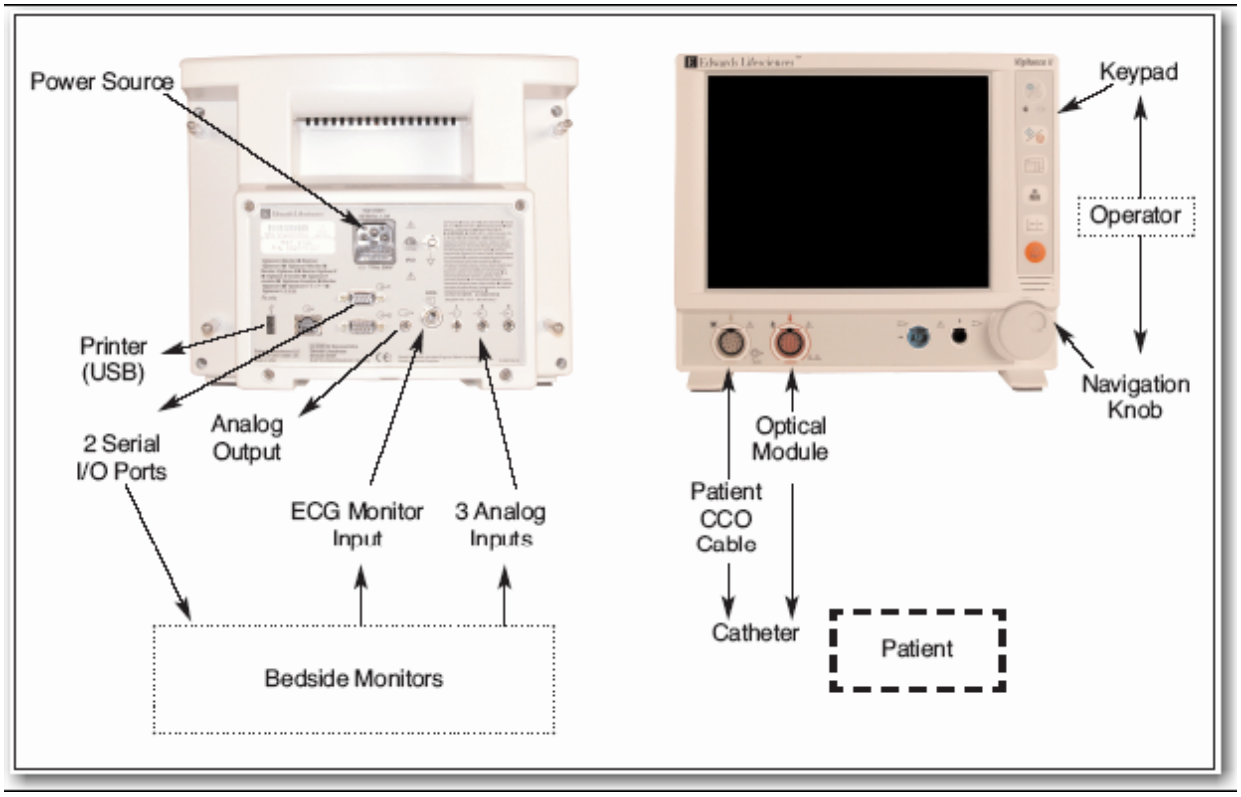
VIGILANCE II PERFORMANCE CHECK OUT

1.0 General:

The *Vigilance* II Monitor Operational Environment Block Diagram is shown below:



As shown above the *Vigilance* II monitor operates in an environment that includes accessory cables, other patient monitors, a printer and the operator.

NOTE: The performance check is not a substitution for the Operator's Manual, which is enclosed with the Vigilance II monitor. The Operator's Manual should be followed at all times for the proper use of the monitor.

2.0 Introduction:

This document provides a performance test of the operation of the *Vigilance*® II CCO/CEDV Monitor. This procedure is designed to be followed in the order presented to assure the user that the computer is functioning properly. If the computer does not perform these tests as specified, please contact Technical Support at 1-800-822-9837.

3.0 Equipment Required:

This procedure requires the following items:

Item No	Model Number	Description
1	70CC2	Patient Cable – CCO Cable
2	OM-2	Optics Module
3	744HF75, 746HF8, 774HF75 or 777HF8	CCO / SVO2 Catheter (Do not remove from the package)

4.0 Power On Self Test (POST)

Perform the following steps for the Power On Self Test.

1. Place the *Vigilance* on a table.
2. Check for loose hardware by tilting the unit to the left side, the right side, to the back, and to the front.
3 Attach the appropriate end of the power cord securely to the *Vigilance* II monitors. Connect the other end to an AC power outlet. The AC indicator will illuminate.

4. Turn the *Vigilance II* monitor ON by pressing the ON/OFF

   Keypad button located on the top right-hand corner of the front panel.

   The *Vigilance II* monitor displays the start up screen as shown below, until the completion of the POST.

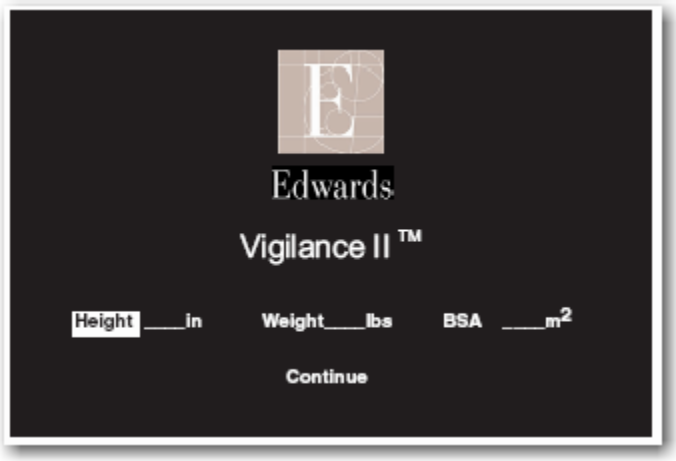
	NOTE: **If an error message is received during POST, carefully record the exact message and call Technical Support at 800.822.9837.**

Fault: Check Catheter and Cable Connections
Fault SvO2: OM Disconnected

Are normal messages that appear and will disappear once proper connections are made.
Upon successful completion, if any patient data exits that is less than 8 hours old, the *Vigilance II* monitor asks if the patient's data should be cleared (see figure below). If all patient data is more than eight hours old, the data is automatically deleted and the monitor displays the Patient Information Screen.

Clear Patient Data Profile Screen

If NO is selected:	If YES is selected:
• Activates previous record for continuation • Keeps Alarms settings and enable/disable alarms status • Displays screen configuration as last used for that patient	• Clears patient data from memory • Reset alarms limits to defaults • Enables all alarms • Starts a new patient record • Displays the patient information screen



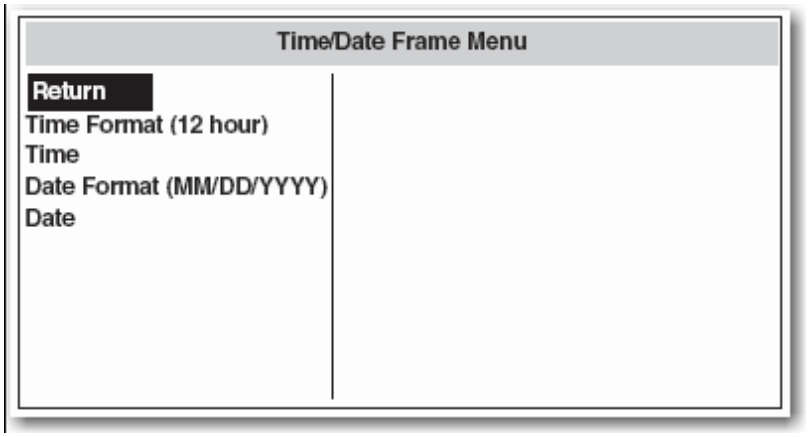
Patient Information Screen

5 Press “Yes or No” on the clear patient data screen. (Based upon your requirement)

5.0 System Setup

5.1 Setting Time and Date:

5.1.1 The Time/Date frame menu is used to set the time and date, and to select the display format of how the time and date will appear on the screen. Access the menu by highlighting the Time/Date frame located at the bottom of the screen to the left of the Small Group parameter frame using the navigation knob. *Press* the knob to select the Time/Date frame menu for display. The menu is illustrated below.



Time/Date Frame menu screen

5.1.2 Enter the correct date and time and the format using the navigation knob.

5.1.3 Press “Return” / “Return” to get back to the main menu.

6.0 SvO2 Verification Test:

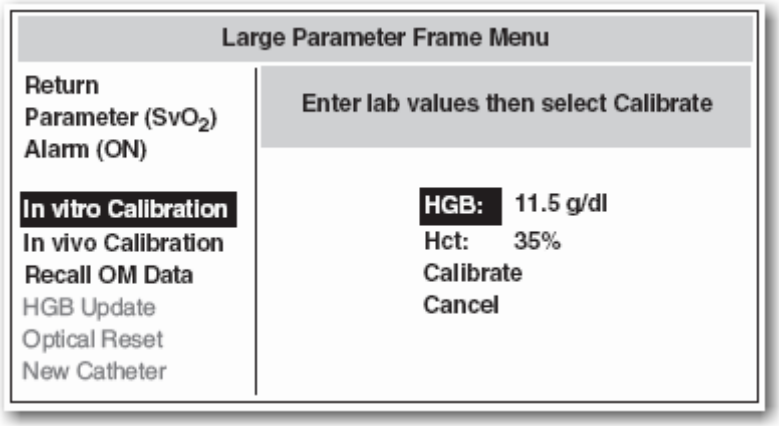
6.1 Connect the OM-2 to the *Vigilance II* SvO2 color coded burgundy connector located on the front of the *Vigilance II* monitor.

6.2 The message **“OM Connected, Please Wait”** will appear on the top portion of the display screen. Please wait until the message changes to **“Optics Module Not calibrated”** before continuing.

6.3 Connect the flat blue catheter optical connector to the OM-2.

6.4 Using the navigation knob highlight the SvO2 or ScvO2 Large parameter frame and click to display the menu (*Rotate* to highlight the frame and *Press* to select)

6.5 Using the navigation knob highlight and press “In-Vitro calibration”. The following menu will be displayed in the secondary frame:



Large Parameter Frame Menu for Oximetry Parameter

6.6 Ensure the Hct is set to 35% (default values), if not change the Hct value to 35% using the navigation knob. Using the navigation knob select “Calibrate”. The following message will be displayed.

“In-Vitro Calibration in progress”

Ready in xx seconds

The “xx” value starts at 20 and counts down by 1sec. Upon completion of a successful calibration, the monitor will display the following message.

“In-Vitro Calibration OK.

Insert catheter then select Start”

6.7 Using the navigation knob select “Start” and Press to start. The following message will be displayed:

Optical Module Update in progress

Do not disconnect Optical Module.

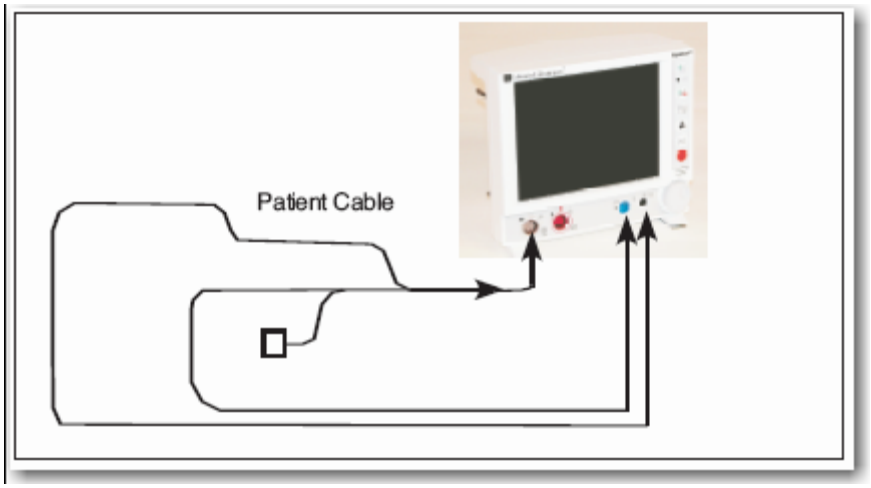
Ready in xx seconds.

6.8 At the end of the update, the large parameter frame will automatically display an SvO2 value of 81 +/- 3 %

7.0 CCO Cable Verification Test:

7.1 The patient CCO cable test (self test) integrated into the *Vigilance II* should be performed to verify the integrated of the cable.
An option included in the setup menu provides instructions to check the integrity of the Patient CCO cable.

7.2 Attach the patient CCO cable thermal filament connector and thermistor connector to their mating connectors on the right side of the *Vigilance II* monitor front panel. See illustration below.



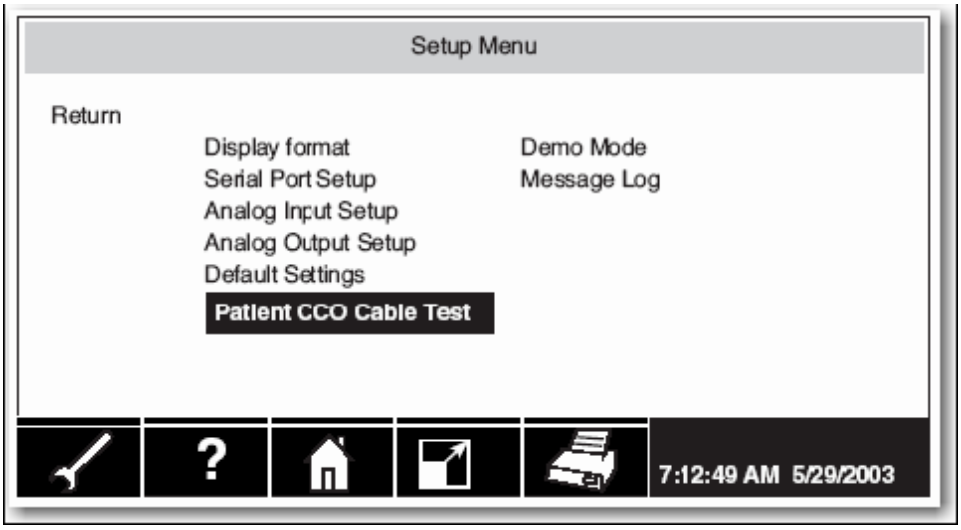
Connecting the Patient CCO cable for integrity Test.

Using the navigation knob select the setup icon in the Toolbar frame of the *Vigilance II* monitor.

NOTE: Ensure the BT displays 4 dashes (----) on the right hand corner of the screen, as soon as the thermistor connector is connected to the mating connector (white 4 pin connector)

7.3 *Rotate* the navigation knob to select Patient CCO cable test from the menu and *Press* the knob. Rotate the knob to highlight the Patient CCO Cable Test. (*see figure below).*

7.4 *Press* the knob. Follow the displayed instructions to perform the Patient CCO cable test.



7.5 Verify the monitor does not display any errors during the cable test.

7.6 Upon completion of the patient CCO Cable test, disconnect the connections to the monitor front panel connectors.

THIS CONCLUDES THE VIGILANCE II PEFORMANCE CHECK